Amendments to the Specification

Please amend the paragraph on page 9, lines 15-19 of the specification, as follows:

The other subfamily of the compounds of the present invention with the general formulae 3DX-3DXVII, includes conjugates of conformationally restricted, cyclic and branched (dimeric) polyamines with acidic retinoids. Restriction of conformation in the polyamine moiety is imposed by e.g. aromatic rings incorporated in the chain (conjugates 3DX and 3DXI) or heterocyclic rings (conjugates 3DXII) whereas the cyclic polyamines used are of various ringsizes and contain different numbers of carbon, nitrogen and oxygen atoms in the ring (conjugates 3DXIII-3DXVI). In this subfamily, the polyamine moiety also consists of symmetric or asymmetric polyamine (spermine and spermidine) dimers (conjugates 3DXVII). In this category of compounds, the substituent R is one of the above mentioned R.sup.1-R.sup.6, R1-R6 preferably R^1 **R.sup.1**, whereas n is one of the numbers 1, 2 and 7. In compounds **3DXVIIA**, R' is identical to R" and equal to COR. In compounds 3DXVIIB, R' is also identical to R" but equal to (CH.sub.2).sub.3NHCOR (CH2)3NHCOR. Finally, in compounds 3DXVIIC, R' is equal to COR and R" is equal to $(CH_2)_3NHCOR$.

Please amend the paragraph [0028] of the current specification, U.S. Patent Application Publication No. 2006/0189696, as follows:

Key-reaction in the synthesis of the polyamine amides described in the present invention is the coupling of an acidic retinoid or activated derivatives of an acidic retinoid with either a free polyamine (direct method) or a suitably protected derivative of a polyamine (indirect method). The acidic retinoids used in this work were either commercially available, e.g. alltrans-retinoic acid (ALDRICH), 9- and 13-cis-retinoic acid (SIGMA) and acitretin (ROCHE) or synthesized using standard reactions, e.g. the polyene chain-shortened all-trans-retinoic acid analogues 9 and 10 depicted in FIG. 2. In particular, \(\beta\)-ionylideneacetic acid (9) was obtained according to a published protocol (Tietze und Eicher, 'Realctionen und Synthesen im organischchemischen Praktikum', Thieme, New York, 1981, p 445), whereas ß -ionylidene-trans-crotonic acid (10) was synthesized from ß -ionylidenethanol (previous reference, p. 446) through a threeAppl. No. 10/549,905

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steps protocol involving oxidation to the corresponding aldehyde with o-iodoxybenzoic acid (IBX) in DMSO (Frigerio et al, J. ORG. CHEM., 60, 7272 (1995)), Wittig reaction with diethyl (ethoxycarbonyl)methylphosphonate and finally saponification. **Talcing** Taking consideration the sensitivity of retinoids towards strongly acidic reagents, we chose to activate the acidic retinoids in the form of their corresponding 'active' esters with N-hydroxysuccinimide (HOSu) which are hydrolytically relatively stable and can be readily purified, if necessary, with flash column chromatography (FCC). In addition, the succinimidyl esters of α, β-unsaturated carboxylic acids react only with the primary amino group of polyamines (Papaioannou et al, TETRAHEDRON LETT., 43, 2593 (2002)). The succinimidyl esters of acidic retinoids (21) are simply obtained (FIG. 3) by treating the acidic retinoid with HOSu in the presence of the coupling agent N,N'-dicyclohexylcarbodiimide (DCC) (see EXAMPLE 1). The succinimidyl esters 21 thus obtained are of sufficient purity to be used in the next step. However, pure samples can be readily obtained through purification with FCC. Esters 21 are then used to acylate the primary amino groups of either the free polyamines (direct method) or polyamines protected at their secondary amino functions with protecting groups, such as 9-fluorenylmethoxycarbonyl (Fmoc) or trifluoroacetyl (Tfa), which can be subsequently removed under basic conditions (indirect method). Examples of both methodologies in the preparation of linear N^{α} -mono(3DII)and $N^\alpha,~N^\omega$ -diacetylated tetra-amines (3DI and 3DVIII) and $N^\alpha,~N^\omega$ - diacetylated triamines (3DIV) and hexa-amines (3DIX) are presented in FIG. 4 and detailed under the EXAMPLES 2 and 3. Useful precursors for the indirect methodology are polyamines bearing the triphenylmethyl (trityl, Trt) protecting group at their terminal amino functions, like 22, 26 and 27, whose preparation has been described by one of the inventors using the amide approach for the assembly of the polyamine chain (Papaioannou et al, TETRAHEDRON LETT., 36, 5187 (1995); 39, 5117 (1998); 42, 1579 (2001); 43, 2593 and 2597 (2002) and Papaioannou et al, in 'Drug Discovery and Design: Medical Aspects', J. Matsoulkas and T. Mavromoustakos (Eds.), IOS Press, Amsterdam, 2002, in press). These precursors are then routinely protected at their secondary amino function(s) with e.g. the Fmoc group and finally detritylated by a solution of trifluoroacetic acid (TFA) in dichloromethane (DCM). Mono- and/or bisacylation is then performed using one or two equivalents of esters 21, respectively. Finally, secondary amino group deprotection is carried out using a 20% solution of piperidine (Pip) in DCM, following routine purification of the fully protected intermediates by FCC, if necessary.

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Please amend paragraph [0036] of the current specification, U.S. Patent Application Publication No. 2006/0189696, as follows:

[0036] The examples below are given so as to illustrate the practice of this invention. They are not intended to limit or define the entire scope of the invention.